



LANDAU
ASSOCIATES,
INC.

Environmental and Geotechnical Services

RECEIVED

MAY 12 1993

SUPERFUND REMEDIAL BRANCH

May 11, 1993

Mr. Mike Kuntz
Washington State Department of Ecology
P.O. Box 47600,
Olympia, WA 98504-7600

RE: COLBERT LANDFILL RD/RA
PROGRESS REPORT
APRIL 1993

USEPA SF



1454875

Dear Mr. Kuntz:

Presented herein is the April 1993 Progress Report for the Colbert Landfill Remedial Design/Remedial Action Superfund Project (Project), which was prepared by Landau Associates, Inc., Spokane County's engineering consultant. This progress report addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- Remedial action activities commenced or completed during the reporting period
- Remedial action activities projected to be commenced or completed through May 1993
- Any problems that were encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Activities commenced and/or completed during this reporting period include continuation of Phase II well development, submittal of a technical memorandum regarding phosphorus background conditions, continuation of Phase II final design. Specific activities performed during this reporting period include:

- Phase II well development is ongoing. Phase II extraction wells are being developed by bailing and surging, pumping, air jetting, or a combination of these methods. Phase II monitoring wells are being developed by air lift and pumping methods.
- Construction modification and redevelopment of Monitoring Well CD-5 was performed. High sediment content was observed during purging for previous sampling events, and the sounded depth (315 ft) was significantly less than the reported constructed depth (350 ft). Because initial attempts to remove the accumulated sediment were unsuccessful, the lower portion of the well was abandoned by filling the annular space with a combination of bentonite chips and silica sand (the well is screened intermittently from 230 ft to 350 ft below ground surface). The bottom of the well is now about 278 ft below the top of

the PVC casing. The partial well abandonment has greatly lowered well sediment content. The performance of the well will be further evaluated during an upcoming groundwater sampling event.

- Purchase of dedicated sampling equipment was initiated. Nine submersible pumps were received on April 21, 1993. Five more submersible pumps were delivered on May 7, 1993, and the remaining four submersible pumps should arrive by May 12. The submersible pumps will be installed in the West Groundwater Monitoring System. A combination of bladder and piston pumps will be installed in the South Groundwater Monitoring System.
- A technical memorandum evaluating groundwater phosphorus conditions and net phosphorus flux to the Little Spokane River was submitted to Ecology and EPA for review on April 16, 1993.
- Phase II design continued, including preparation of bid documents and final plans and specifications.

2.0 ACTIVITIES/PROJECTS TO BE COMMENCED/COMPLETED DURING THE NEXT REPORTING PERIOD

The next reporting period extends through May 1993. Anticipated activities for the next reporting period include:

- Completing well development (by mid-May).
- Completing installation of dedicated groundwater sampling equipment (by mid-May).
- Initiating groundwater sampling and analyses. Samples will be collected from about 70 monitoring, extraction, and domestic wells, and will be analyzed for volatile organic compounds. Sampling will extend through early June.
- Initiating water elevation measurements. Water elevation data will be collected from the Upper and Lower Sand/Gravel Aquifers to provide background measurements prior to implementation of the Phase II remedial action.
- Completing Phase II design, including responding to Ecology and EPA comments on the Treatment and Discharge (T&D) Plan .
- Submitting a letter responding to Ecology and EPA comments on the T&D Plan (by late May).
- Advertising requests for bids for the air stripping tower and for general construction (by late May; contingent on resolutions of NPDES issues).

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS


No problems were encountered during the reporting period. However, significant problems are anticipated if NPDES issues are not resolved by late May. Request for bids must be advertised by the end of May to complete construction by the end of 1993. It may not be possible to successfully implement the remedial action without significant redesign if construction is not completed by the end of the year. Redesign would greatly increase the cost, and delay project implementation for year or more.

* * * * *

This report describes progress on only the primary Project remedial action activities. There are peripheral activities associated with the primary activities which are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for peripheral activities, please contact Landau Associates or Dean Fowler (Spokane County).

LANDAU ASSOCIATES, INC.

By:


Lawrence D. Beard, P.E.
Project Manager

LDB/fas
No. 124002.120

cc: Neil Thompson, U.S. EPA
Dean Fowler, Spokane County
Lyle Diedieker, Ecology & Environment, Inc.